

FIG. 1A

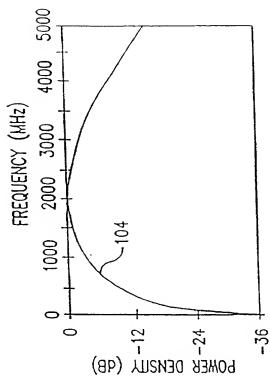


FIG. 1B

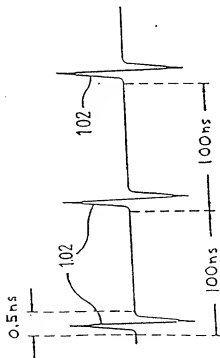


FIG.2A

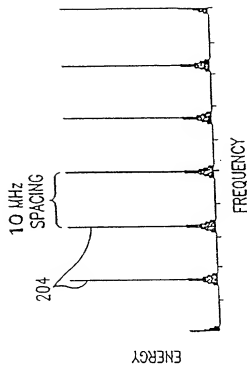


FIG.2B

10075913, 111301

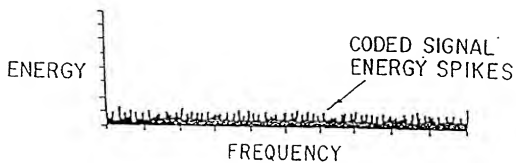


FIG. 3

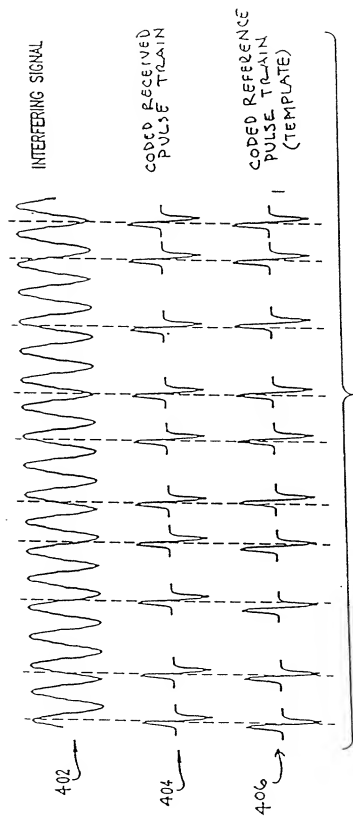


FIG. 4

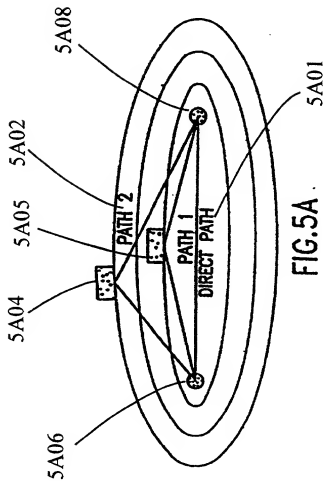


FIG. 5A

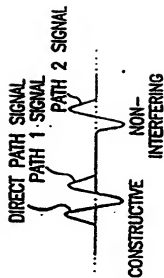
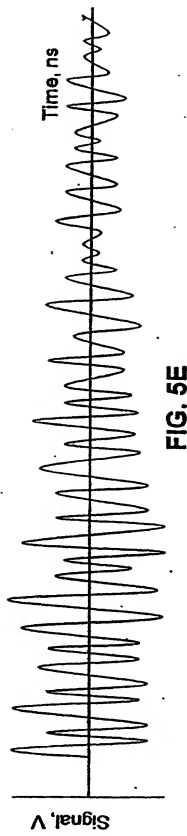
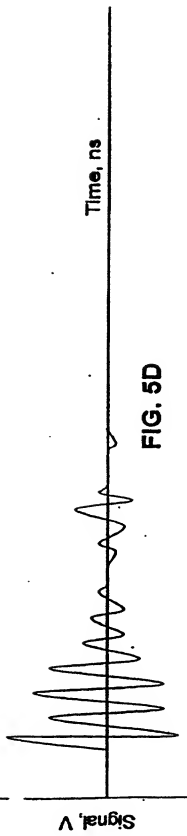
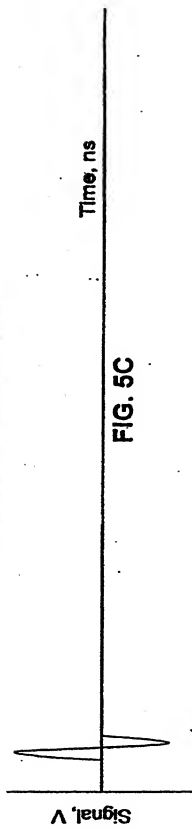


FIG. 5B



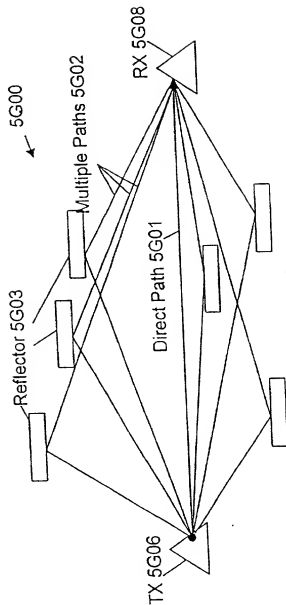


FIG. 5G

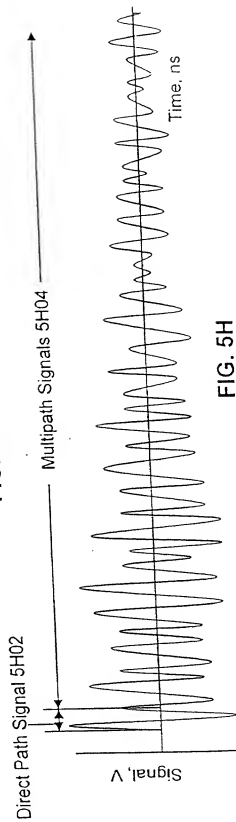


FIG. 5H

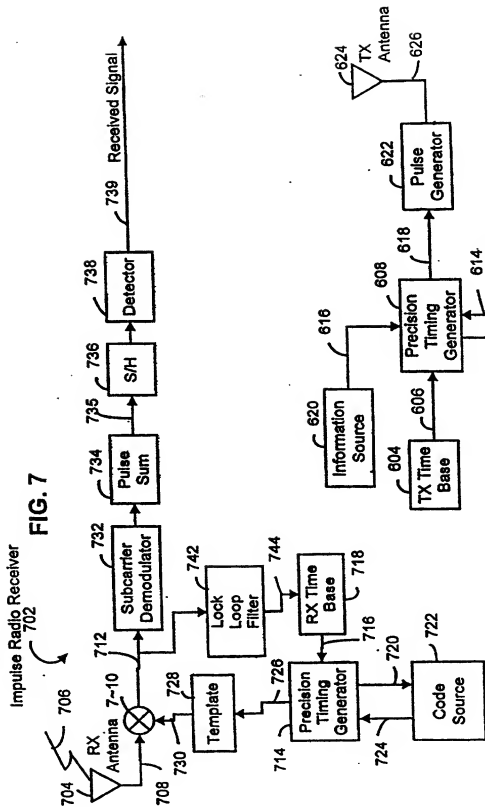


FIG. 6

Impulse Radio Transmitter

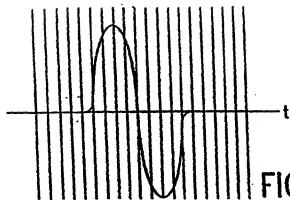


FIG. 8A

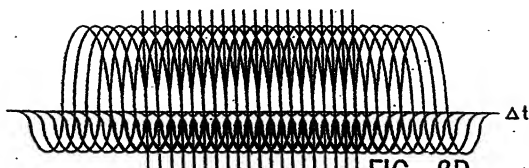
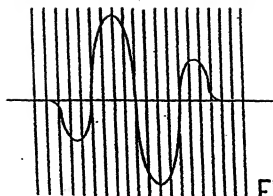


FIG. 8B



CORRESPONDING
TO EACH
 Δt

FIG. 8C

10075913.111301

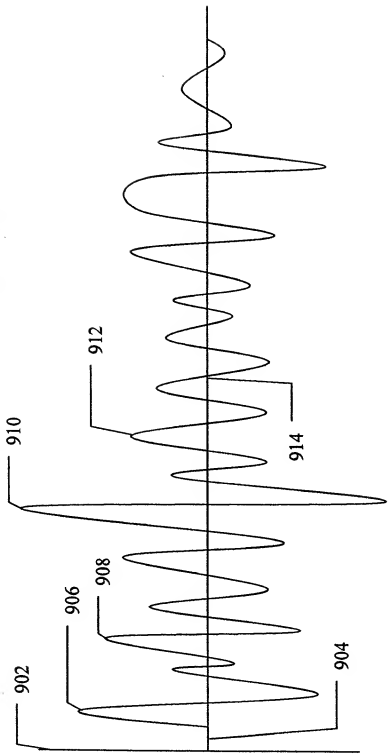


FIG.9

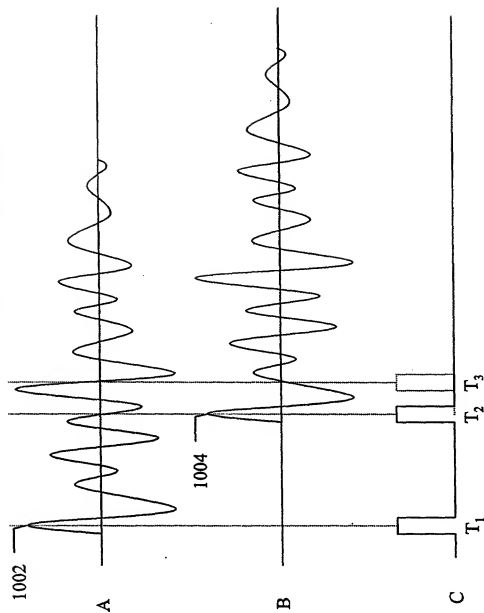


FIG. 10

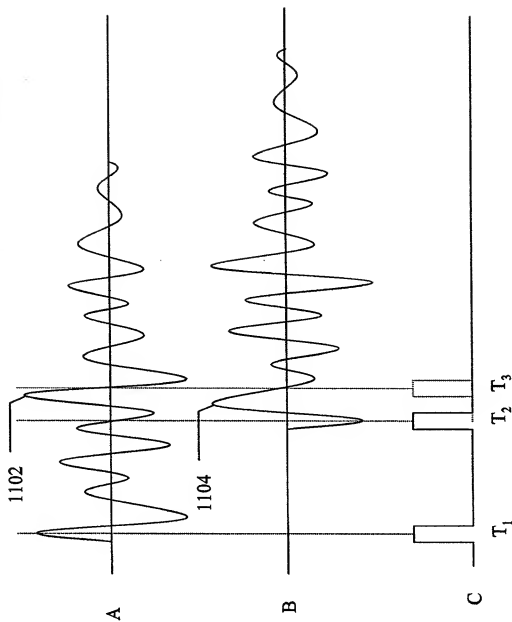


Fig. 11

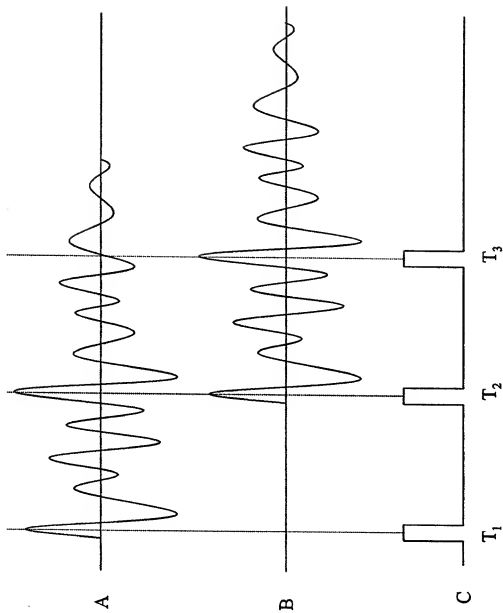


FIG. 12

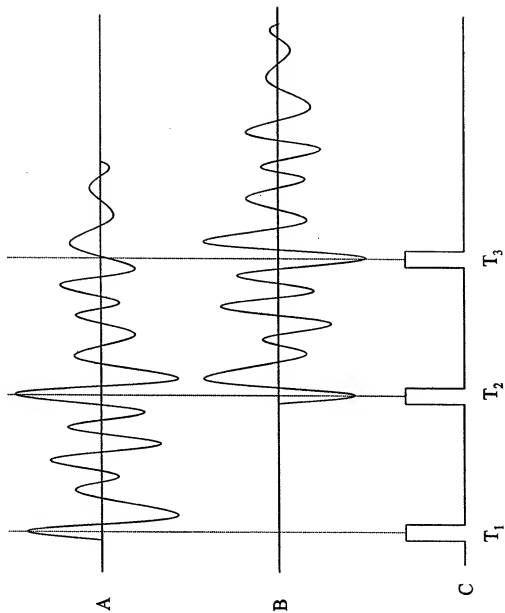


FIG. 13

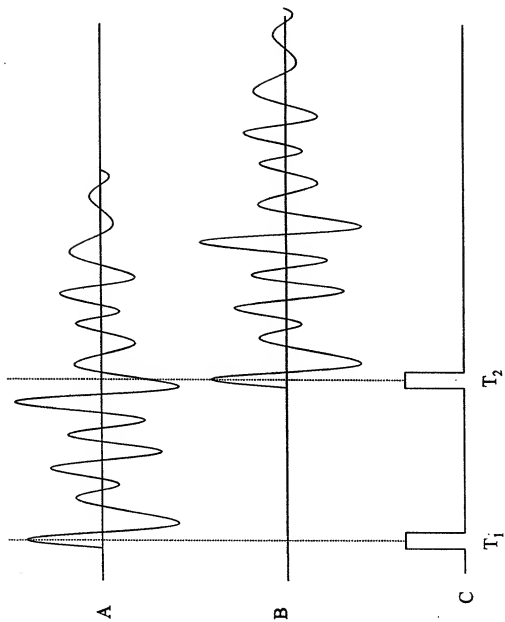


FIG. 13a

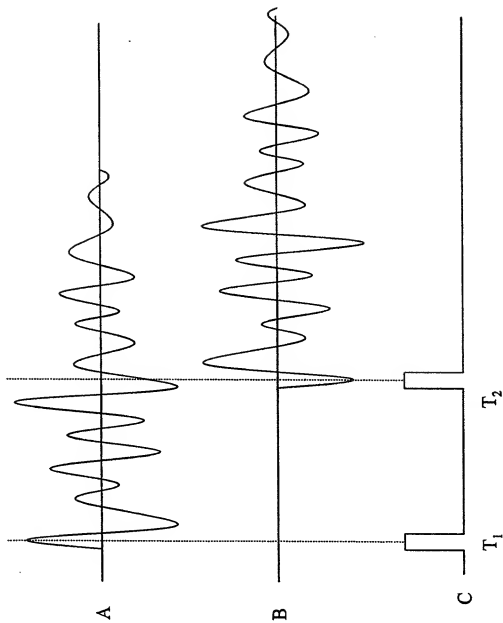


FIG. 13b

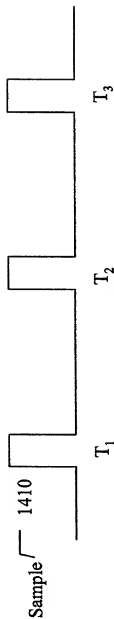
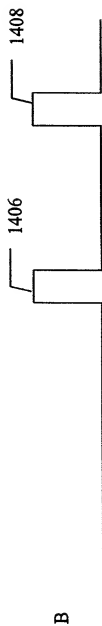
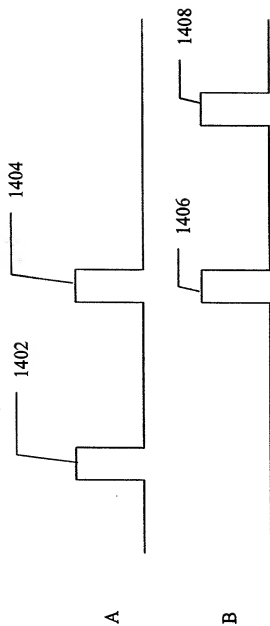


FIG. 14

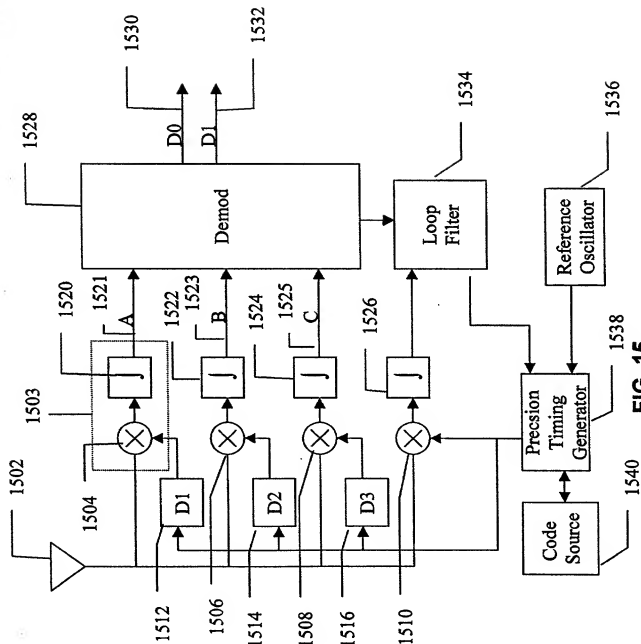


FIG. 15

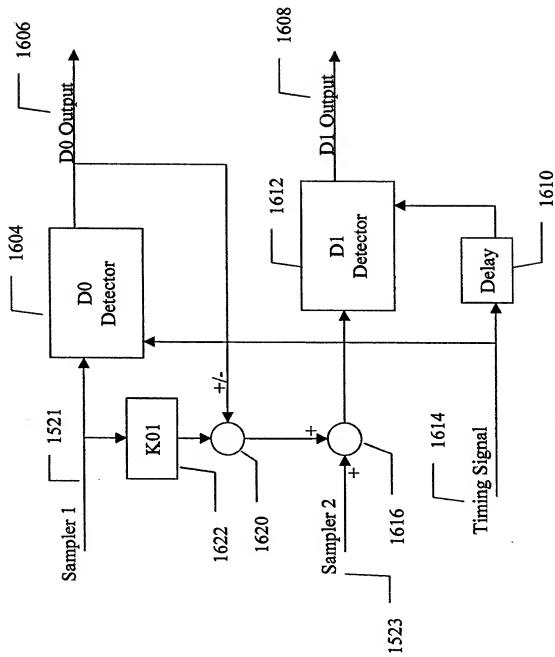


FIG. 16

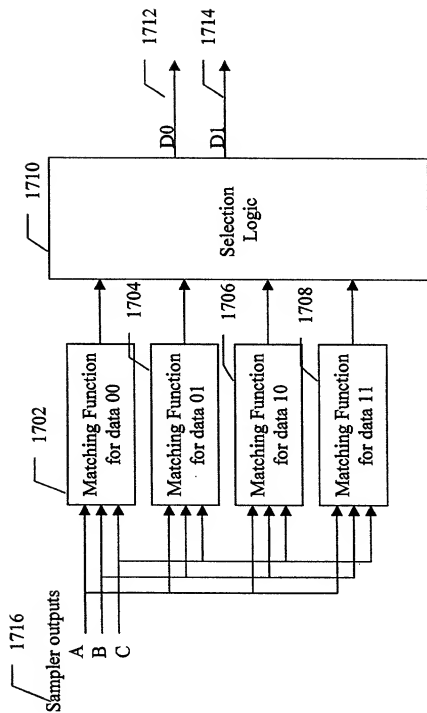


FIG. 17

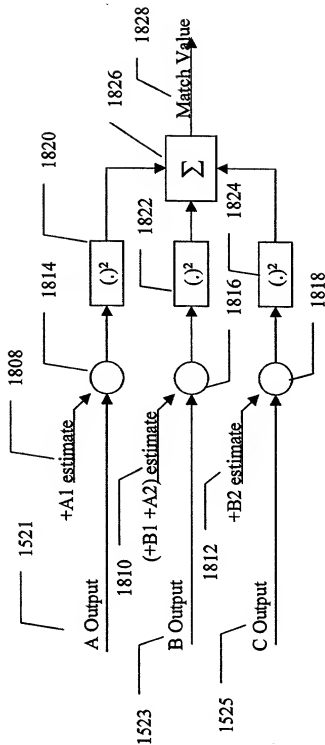


FIG. 18

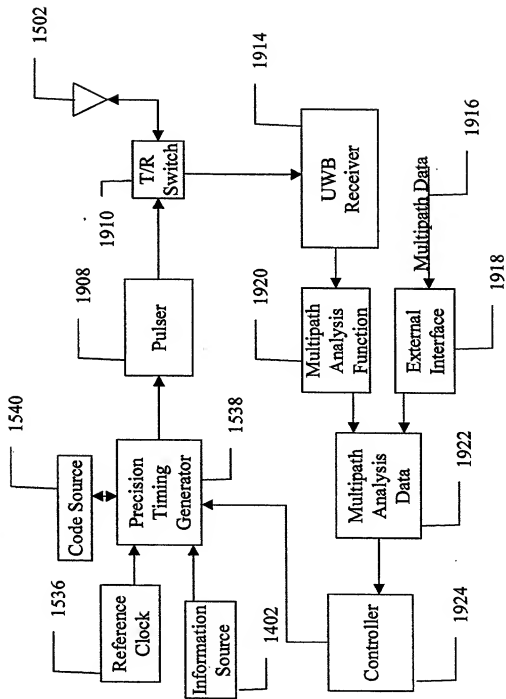


FIG. 19

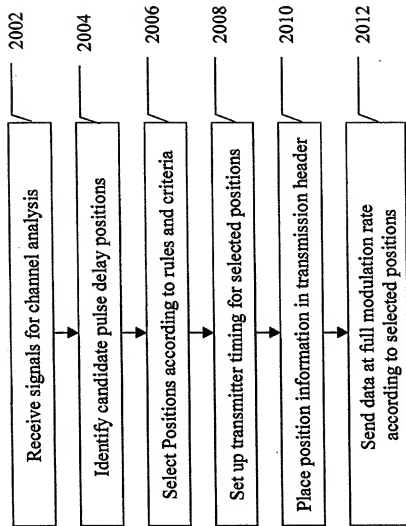


FIG. 20